



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

TKO Doors, Div. of 4Front Engineered Solutions, Inc.
N56 W24701 N. Corporate Circle, Ste A
Sussex, WI 53089

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model CW WL Dock Plastic Sectional Garage Door up to 10'-0" Wide

APPROVAL DOCUMENT: Drawing No. **15-2402**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/2011, with last revision dated 05/19/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **15-0916.07** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Signature]
06/22/2016

NOA No 16-0329.05
Expiration Date: September 15, 2021
Approval Date: June 30, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **15-2402**, titled "Fiberglass Dock Doors CW WL Overhead Garage Door", sheet 1 through 7 of 7, dated 04/14/2011, with last revision dated 05/19/2015, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS "*Submitted under NOA # 11-0513.04*"

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **98517.01-602-18**, dated 03/24/2010, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of Series/Model CW WL, dock door, prepared by Architectural Testing, Inc., Test Report No. **89514.01-602-18**, dated 04/24/2009, signed and sealed by Joseph A. Reed, P.E.
3. Test report on Accelerated Weathering using Xenon Arc Light Apparatus for 4500 hours, per ASTM G155-04 and on Tensile Test per ASTM D638 of FRP composite panels, prepared by Architectural Testing, Inc., Test Report No. **A3696.01-106-18**, dated 05/04/2011, signed and sealed by Joseph A. Reed, P.E.
4. Test report on Self-ignition Temperature per ASTM D1929-96(2000)e1 of various plastic and fiberglass door components, prepared by Architectural Testing, Inc., Test Report No. **95487.01-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.
5. Test report on Smoke Density Rating per ASTM D2843-99(2004) of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.01-106-18**, dated 05/04/2011, signed and sealed by Joseph A. Reed, P.E.
6. Test report on Smoke Density Rating per ASTM D2843-99(2004) of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.02-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.



06/22/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 16-0329.05

Expiration Date: September 15, 2021

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B. TESTS (CONTINUED) “Submitted under NOA # 11-0513.04”

7. Test report on Rate of Burn per ASTM D635-06 of different types of plastics, prepared by Architectural Testing, Inc., Test Report No. **92103.02-106-18**, dated 08/19/2009, signed and sealed by Joseph A. Reed, P.E.
8. Test report on Rate of Burn per ASTM D635-06 of vinyl and seals, prepared by Architectural Testing, Inc., Test Report No. **95487.03-106-31**, dated 11/04/2009, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS “Submitted under NOA # 15-0916.07”

1. Jamb anchor calculations prepared by Engineering Express, dated 05/05/2015, signed and sealed by Frank L. Bennardo, P.E.

“Submitted under NOA # 11-0513.04”
2. Jamb anchor calculations, complying with FBC-2007, prepared by Engineering Express, dated 04/15/2011, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS “Submitted under NOA # 11-0513.04”

1. Test report on Self-Ignition Temperature per ASTM D1929-96(2000), Flame Spread Index and Smoke Developed Index per ASTM D84-10b of RayLite EPS foam insulation, prepared by Architectural Testing, Inc., Test Report No. **B1755.01-122-18**, dated 08/17/2011, signed and sealed by Michael D. Stremmel, P.E.

F. STATEMENTS “Submitted under NOA # 15-0916.07”

1. Statement letter of code conformance with the 5th edition (2014) FBC issued by Engineering Express, dated 05/19/2015, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest issued by Engineering Express, dated 05/19/2015, signed and sealed by Frank L. Bennardo, P.E.



06/22/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 16-0329.05
Expiration Date: September 15, 2021
Approval Date: June 30, 2016

03/18/2016 - 10:13am rldn V:\Project\15-2402 Fiberglass Dock Doors Model CW WL NOA - Update 12-1019.12 (11-TKO-01) \Project\WP15-2402b Fiberglass Dock Doors NOA.dwg

CW WL DOCK DOORS

LARGE MISSILE IMPACT RESISTANT

FRANK L. BENNARD

LICENSE

No. 46549

STATE OF FLORIDA

PROFESSIONAL ENGINEER

03/18/2016

FRANK L. BENNARD, P.E.
PE0046549

ENGINEERING EXPRESS

160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM

CERT OF AUTH #886
A FRANK L. BENNARD, P.E., INC. INNOVATION

GENERAL NOTES

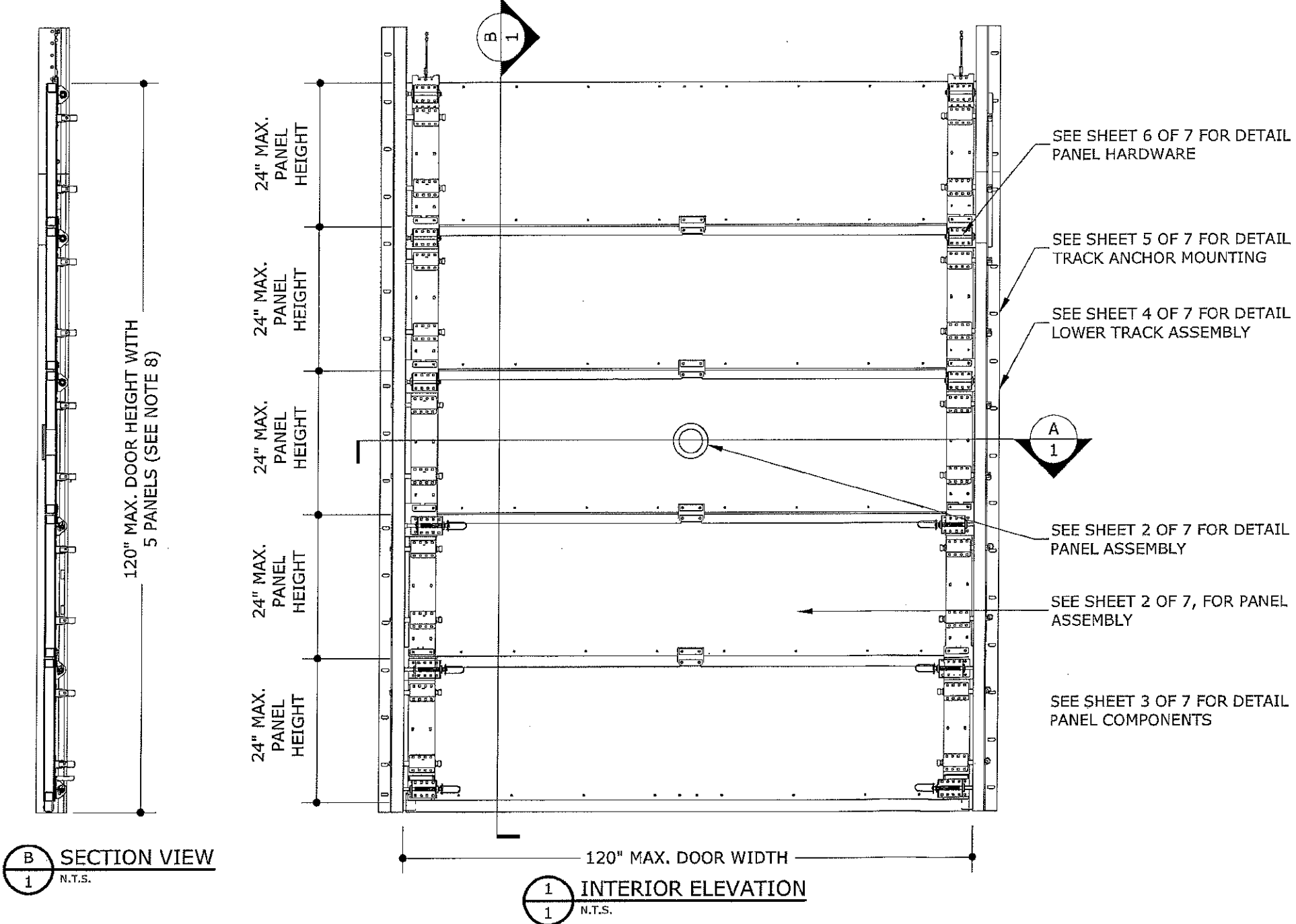
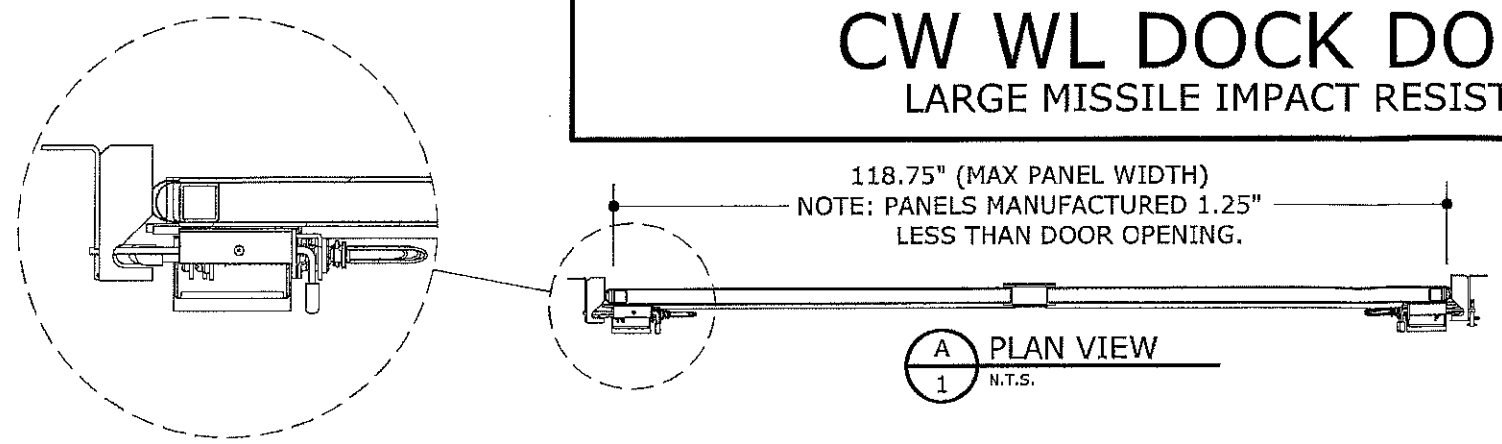
1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE FIFTH EDITION (2014), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
5. CONTRACTOR SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI U.O.N.
7. ALL DISSIMILAR MATERIALS IN CONTACT SHALL BE PAINTED, PLATED OR OTHERWISE INSULATED.
8. DOOR HEIGHT MAY VARY UP TO A MAXIMUM HEIGHT OF 120", PROVIDED THAT INDIVIDUAL PANEL HEIGHTS DO NOT EXCEED 24", AND A TOP PANEL IS USED AS SHOWN IN DETAIL 1/6.
9. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **16-0329.05**

Expiration Date **09/15/2021**

By *[Signature]*
Miami-Dade Product Control

**ALLOWABLE
DESIGN PRESSURES**
+52.0 PSF
-67.5 PSF



TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301

FIBERGLASS DOCK DOORS
CW WL OVERHEAD GARAGE DOOR
MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INT ISSUE (11-TKO-0001)	KL	FLB	04/14/11
REV PER BNC COMMENTS	KL	FLB	06/23/11
2010 FBC	KL	FLB	12/02/11
NAME CHANGE	KL	FLB	10/03/12
FBC UPDATE	RWN	CSL	05/19/15

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15-2402

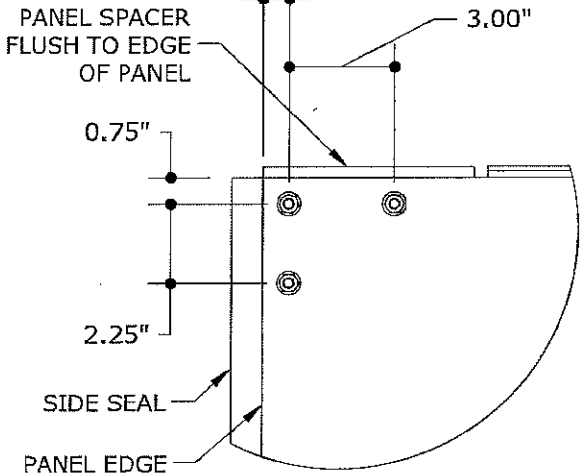
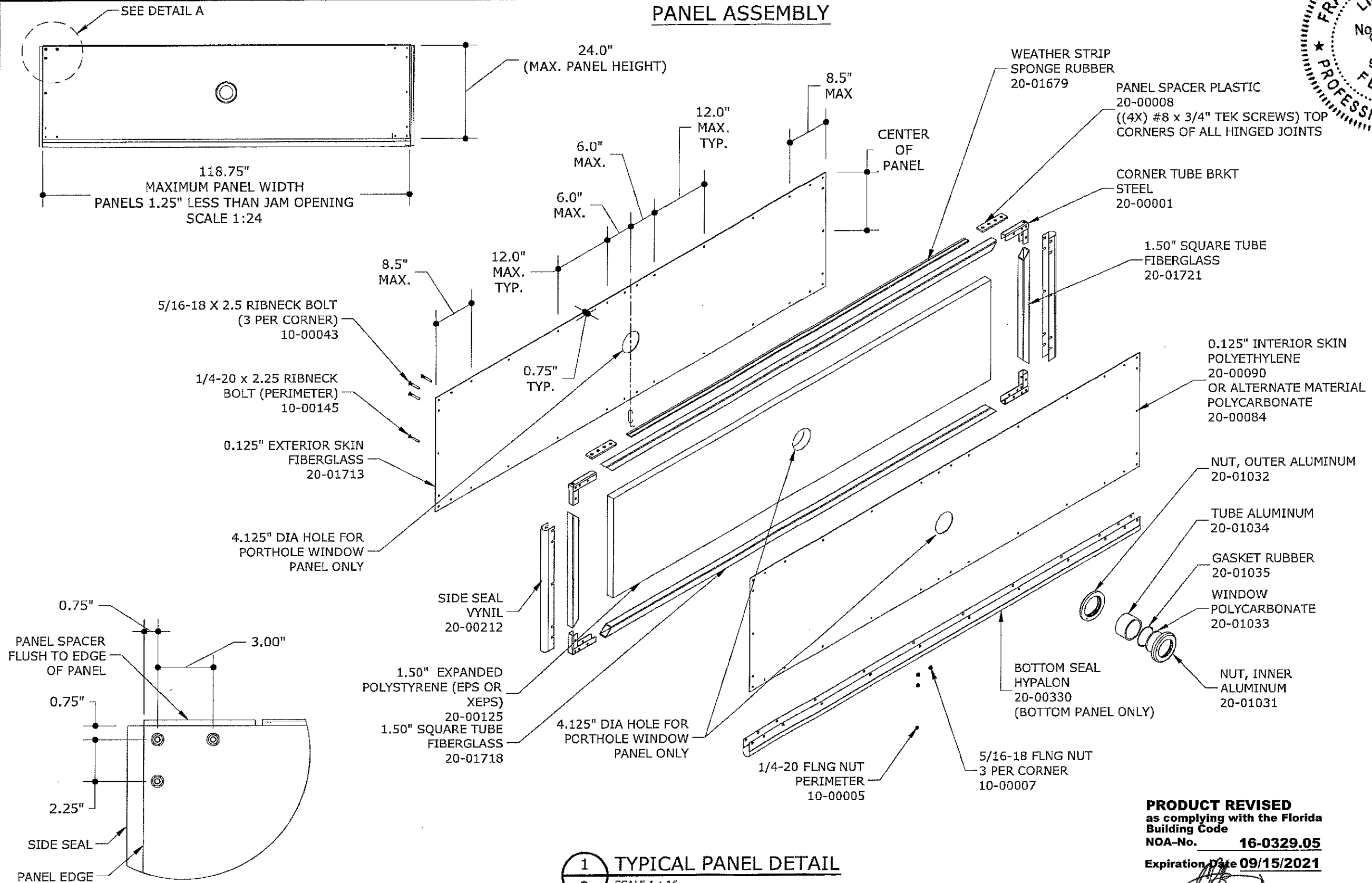
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1 OF 7

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12/19/2019 10:13am rickn

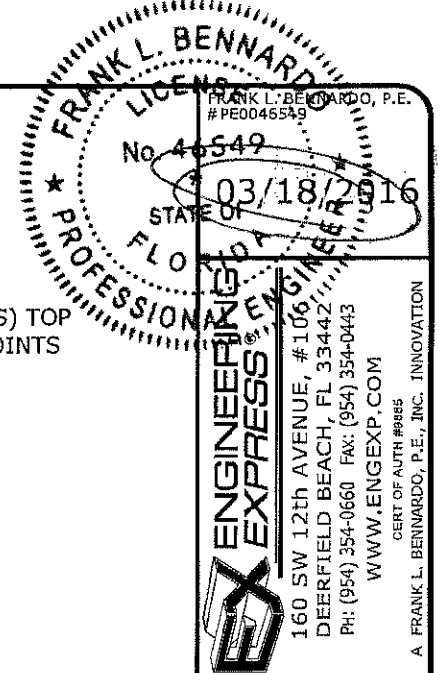
PANEL ASSEMBLY



A CORNER DETAIL
SCALE 1 : 5

1 TYPICAL PANEL DETAIL
SCALE 1 : 16

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Miami-Date Product Control



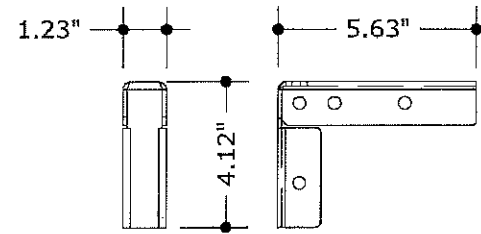
TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
N56 W24701 NORTH CORPORATE CIRCLE, SUITE A
SUSSEX, WI 53089
PHONE: 1-800-575-3366 FAX: (262) 246-1301
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CW WL OVERHEAD GARAGE DOOR
MIAMI-DATE NOTICE OF ACCEPTANCE

REMARKS	DATE	CHKD	DATE
INITIALS (11-TKO-0001)	04/14/11	KL	04/14/11
REV. PER BNG COMMENTS	06/23/11	KL	06/23/11
2018 FBC	12/02/11	KL	12/02/11
NAME CHANGE	05/19/15	RWN	05/19/15
FBC UPDATE	05/19/15	CSL	05/19/15

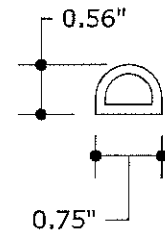
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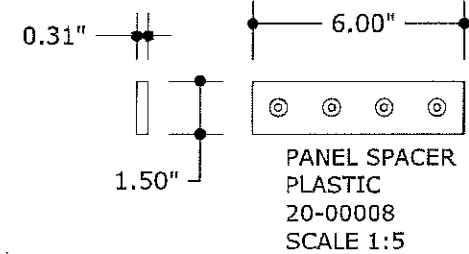
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03/18/2016 - 10:13am riskn



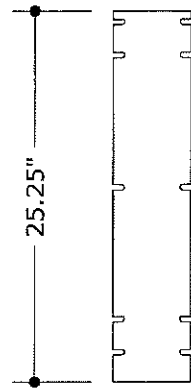
CORNER TUBE BRKT
0.119" THICK ASTM A1011 STEEL
SAE GR 945A: Fy = 45ksi MINIMUM
20-00001
SCALE 1:5



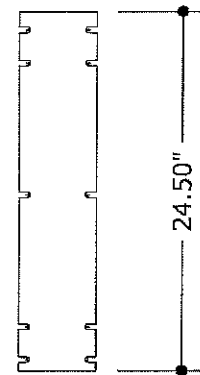
WEATHER STRIP
SPONGE RUBBER
PART # 20-01679



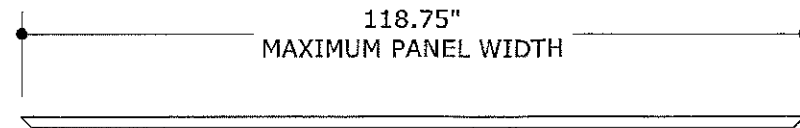
PANEL SPACER
PLASTIC
20-00008
SCALE 1:5



SIDE SEAL
22 OZ. URETHANE
SHEET
20-00212
SCALE 1:12
BOTTOM PANEL ONLY



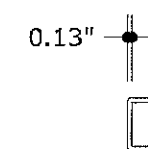
SIDE SEAL
22 OZ. URETHANE
SHEET
20-00132
SCALE 1:12
NON-BOTTOM PANELS



118.75"
MAXIMUM PANEL WIDTH

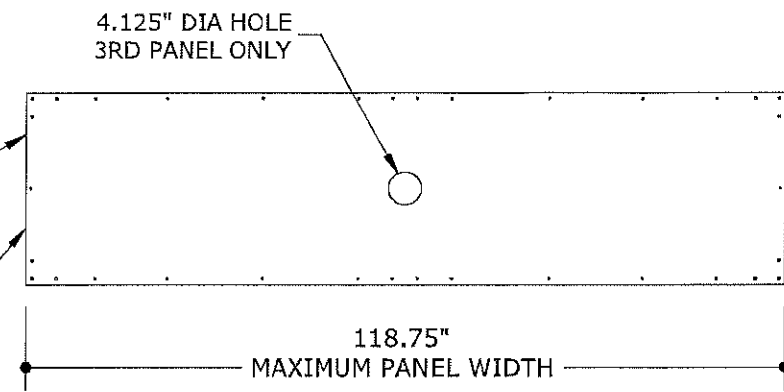
1.50" SQUARE TUBE
FIBERGLASS
20-01718
SCALE 1:22

1.50" SQUARE TUBE
FIBERGLASS
SCALE 1:5



1.50" SQUARE TUBE
FIBERGLASS
20-001721
SCALE 1:12

0.125" EXTERIOR SKIN
FIBERGLASS
20-01713
0.125" INTERIOR SKIN
POLYETHYLENE
20-00090
OR ALTERNATE MATERIAL
POLYCARBONATE
20-00084

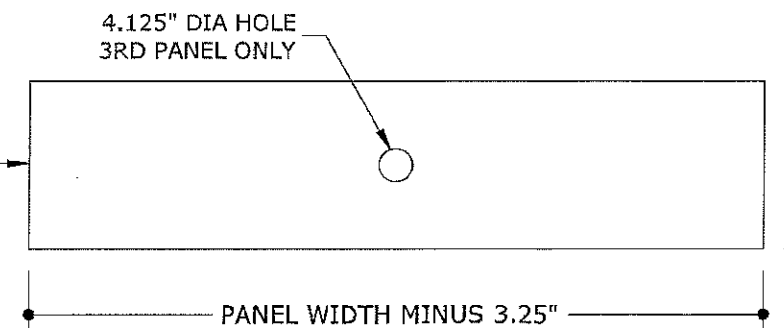


4.125" DIA HOLE
3RD PANEL ONLY

118.75"
MAXIMUM PANEL WIDTH

24.0" MAX.
PANEL HEIGHT

1.50" INSULATION
EXPANDED POLYSTYRENE
20-00125

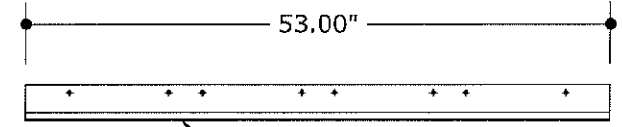


4.125" DIA HOLE
3RD PANEL ONLY

PANEL WIDTH MINUS 3.25"

SCALE 1 : 22

PANEL HEIGHT
MINUS 3.0"



PANEL SEAL
VINYL
20-01609

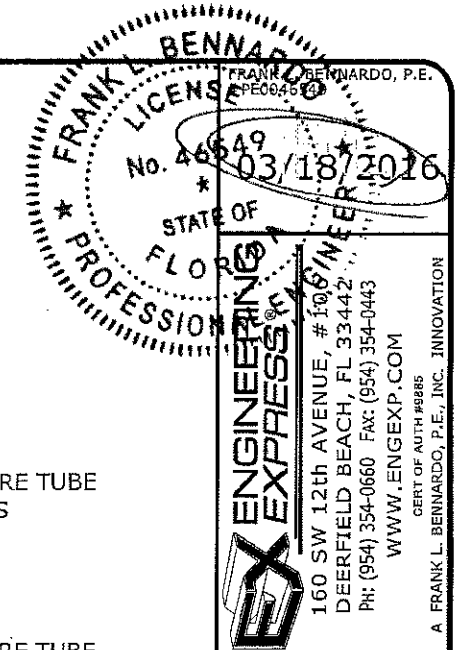


BOTTOM SEAL
HYPALON SHEET
20-00330

EQUALS PANEL WIDTH

SCALE 1 : 12

PANEL COMPONENTS



TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
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CW WL OVERHEAD GARAGE DOOR
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Expiration Date 09/15/2021

By *[Signature]*
Miami, Dade Product Control

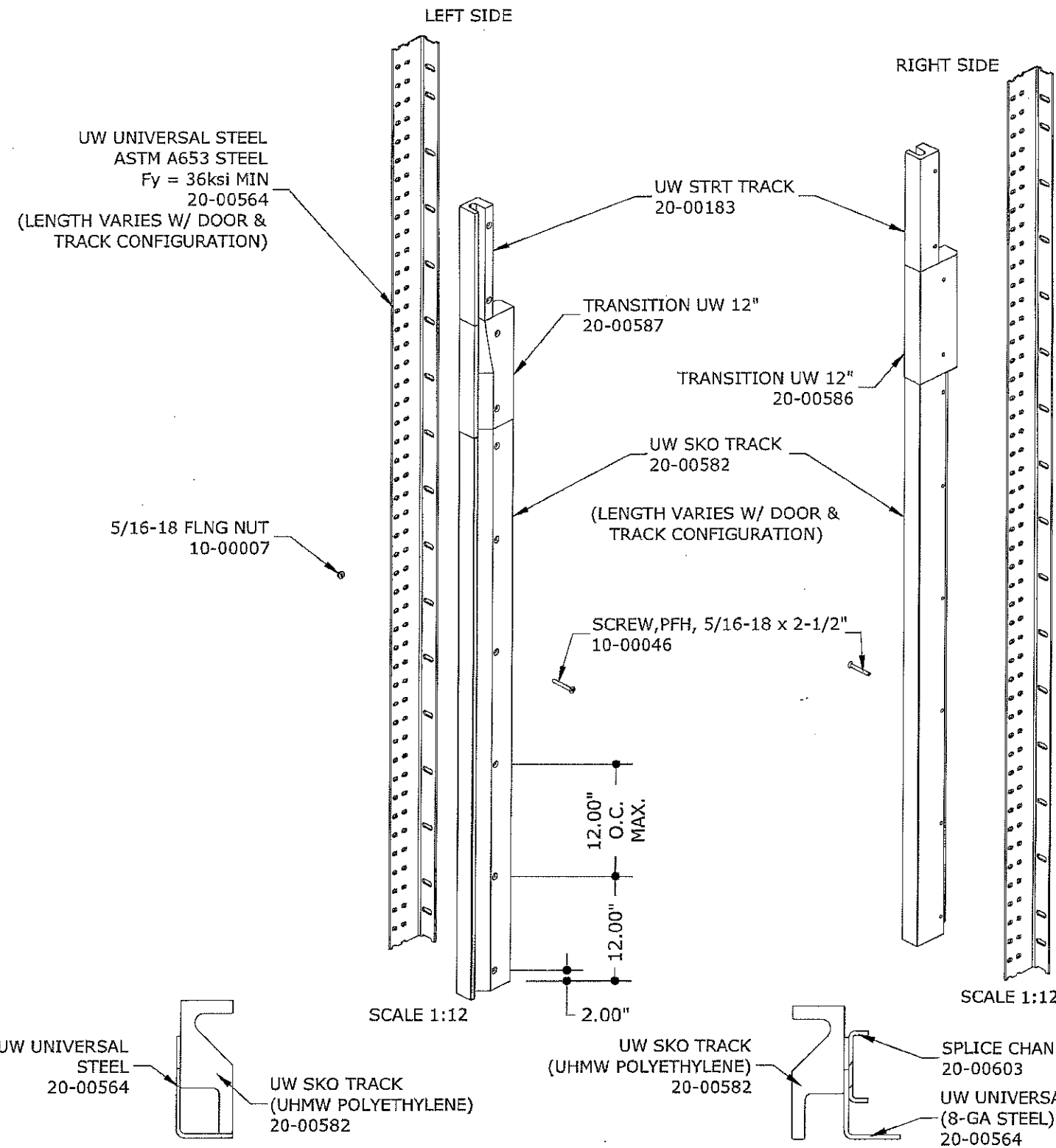
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3

7

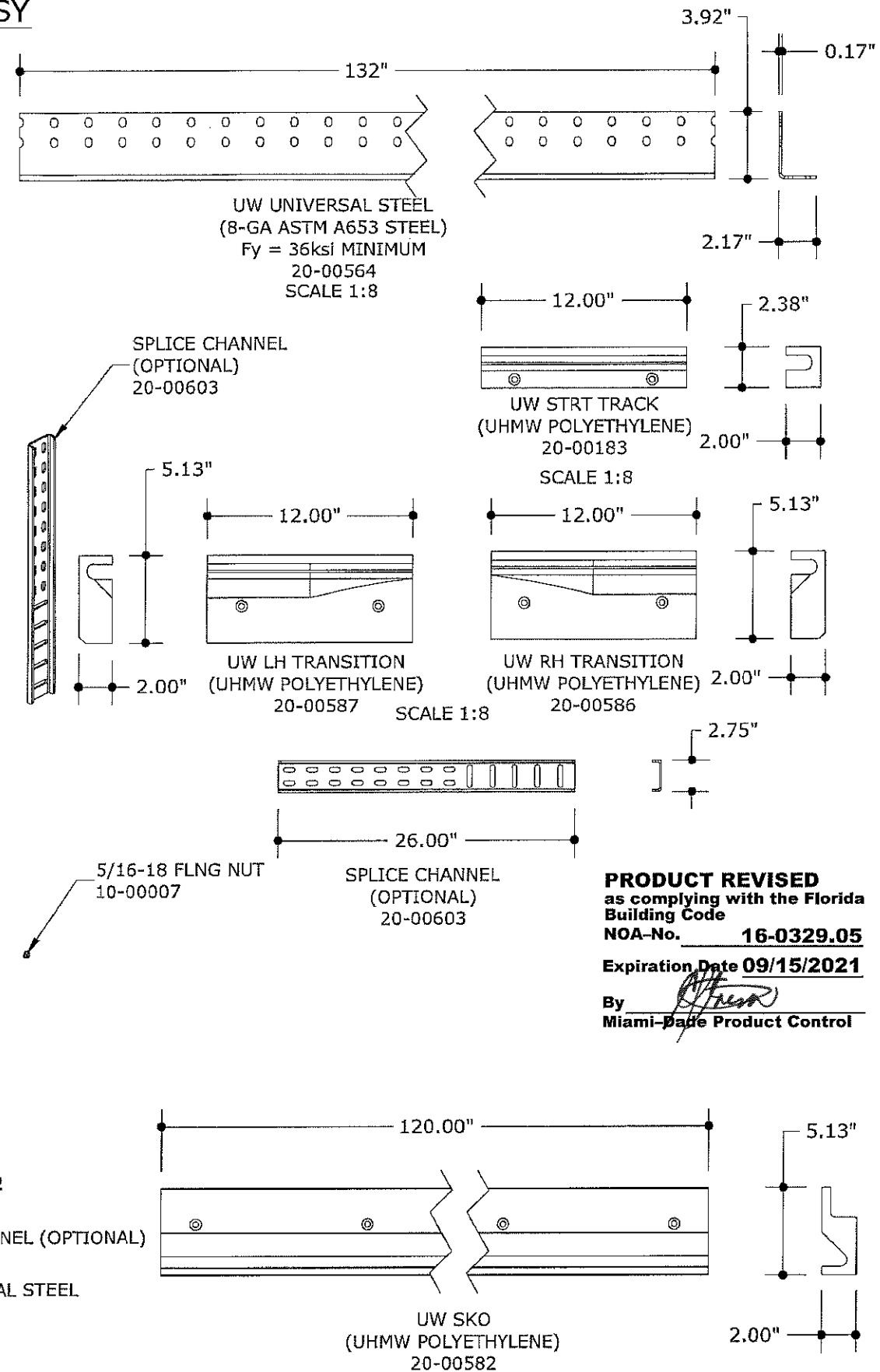
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03/16/2016 - 10:13am rickn

LOWER TRACK ASSY



REVERSE MOUNT
SCALE 1 : 5

STANDARD MOUNT
SCALE 1 : 5



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By *[Signature]*
Miami-**Product Control**

FRANK L. BENNARDO
Professional Engineer
No. 46549
03/18/2016
STATE OF FLORIDA
160 SW 12th Avenue, #300
Deerfield Beach, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-0660
WWW.ENGEXP.COM
CERT. OF AUTH. #8888
A FRANK L. BENNARDO, P.E., INC. INNOVATION

TKO DOORS, DIVISION OF 4FRONT ENGINEERED SOLUTIONS, INC.
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NAME CHANGE	KL	FLB	10/09/12
PBC UPDATE	RWN	CSL	05/19/16

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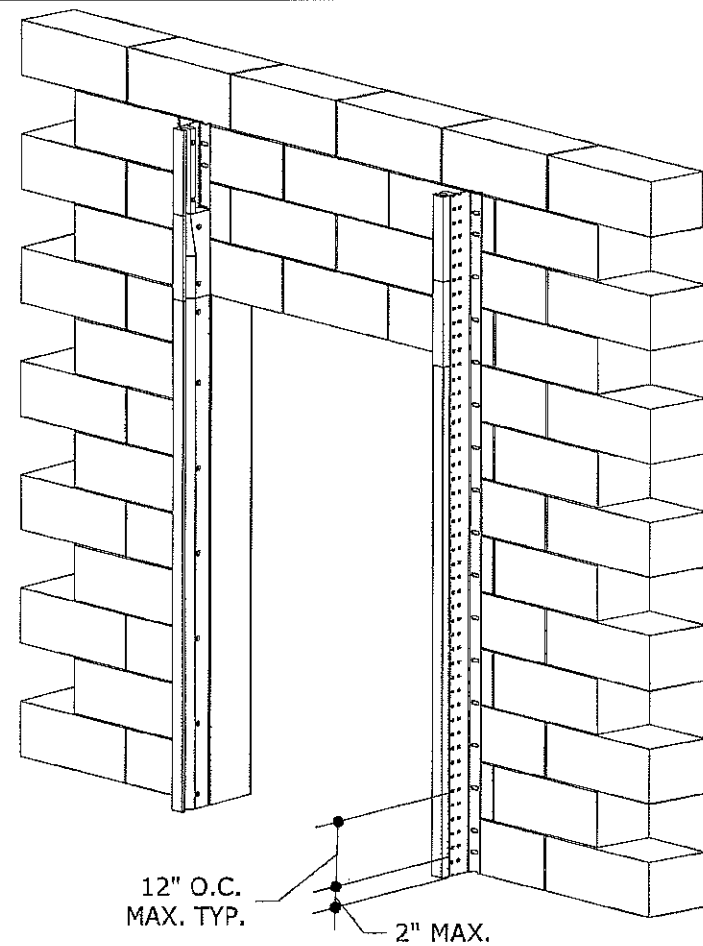
15-2402

SCALE: -

PAGE DESCRIPTION:

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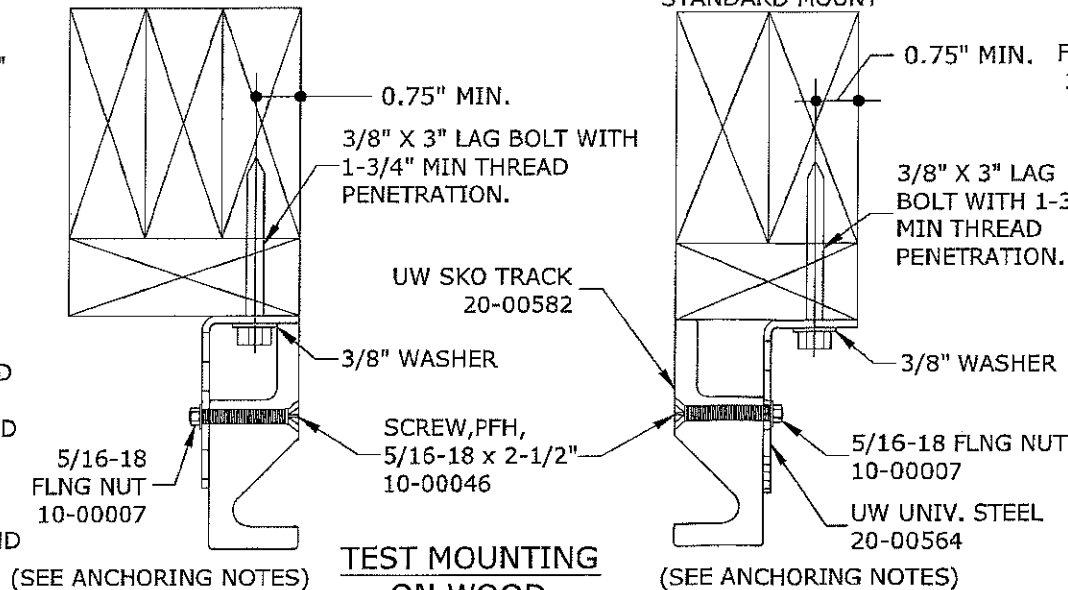


TRACK ANCHOR MOUNTING

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **16-0329.05**
Expiration Date **09/15/2021**
By *[Signature]*
Miami-Dade Product Control

TEST MOUNTING ON WOOD

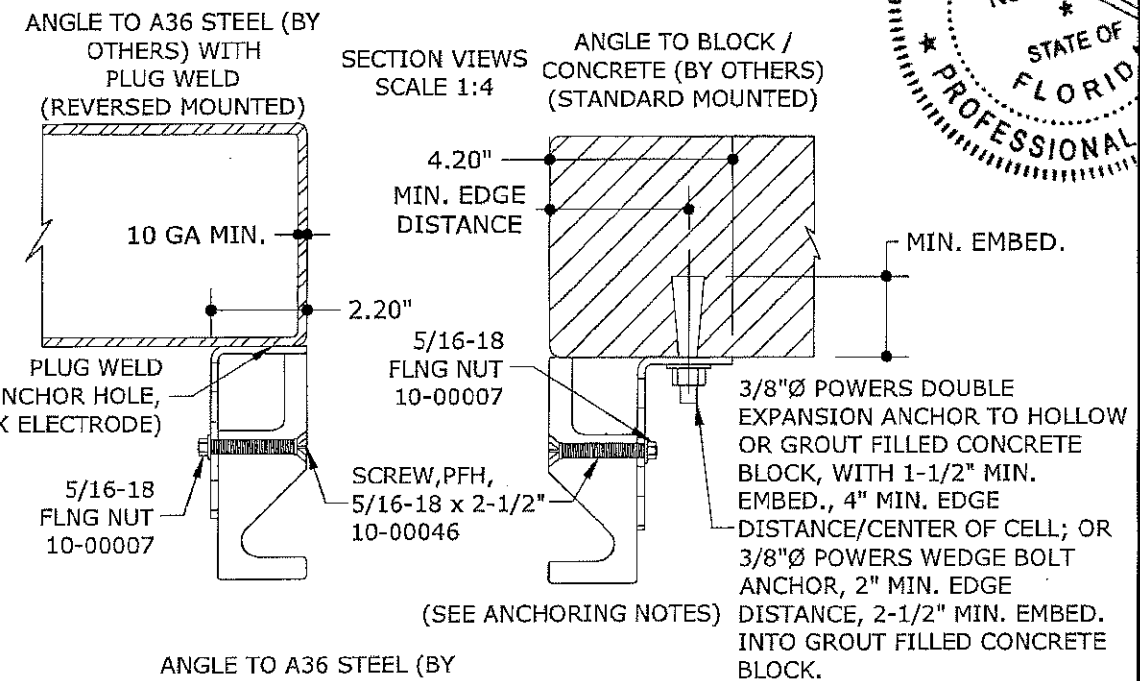
ANGLE TO WOOD
FRAMING (BY OTHERS)
REVERSE MOUNT



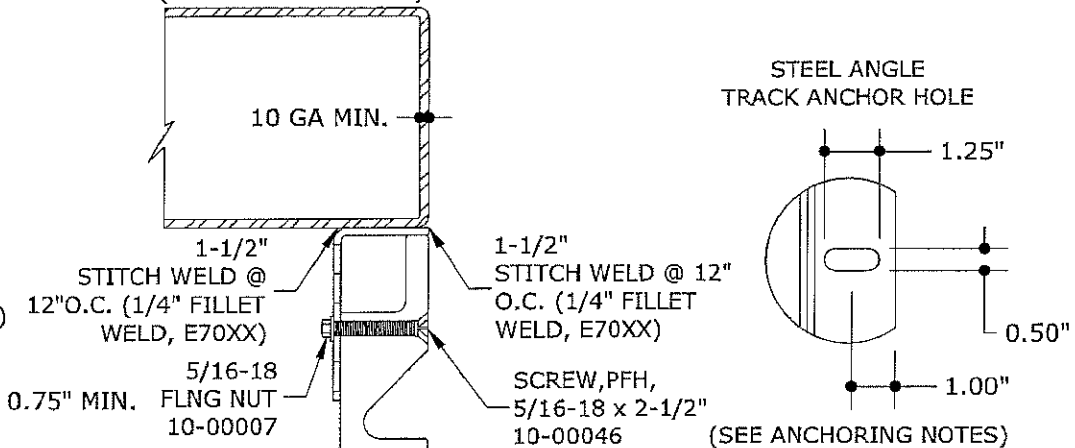
TEST MOUNTING ON WOOD

(SEE ANCHORING NOTES)

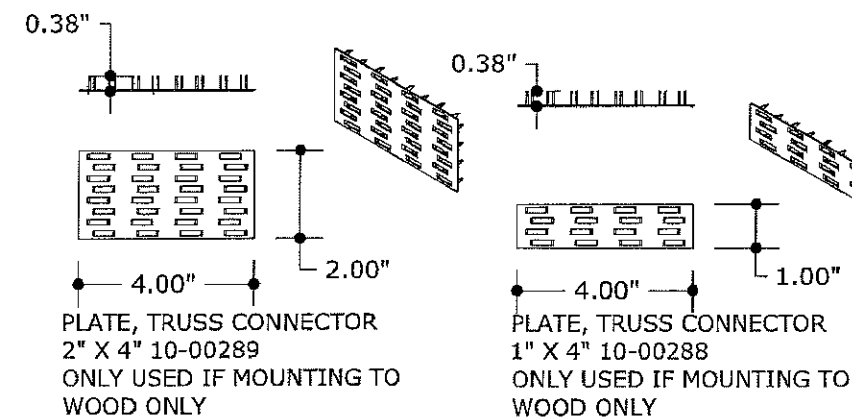
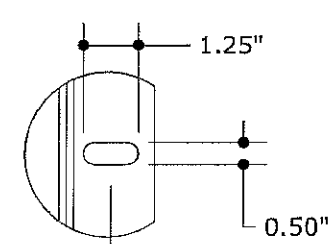
OPTIONAL TRACK ANCHOR DETAILS



ANGLE TO A36 STEEL (BY
OTHERS) WITH
STITCH WELD
(REVERSED MOUNTED)

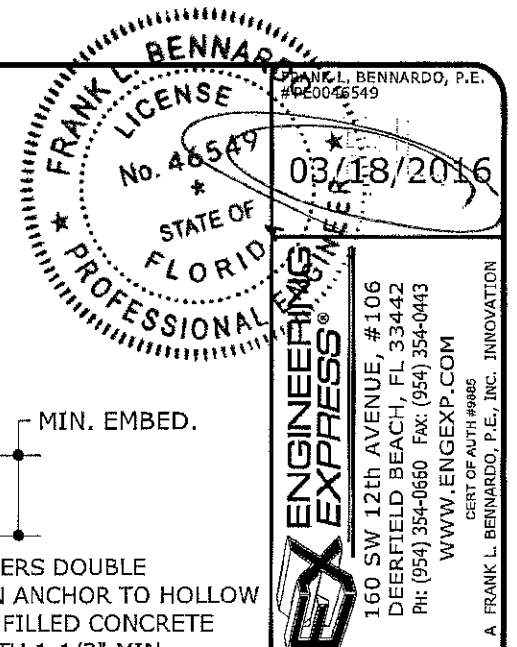


STEEL ANGLE
TRACK ANCHOR HOLE



ANCHORING NOTES:

1. THIS SYSTEM SHALL BE ANCHORED WITH ANY OF THE ANCHORING METHODS SHOWN HEREIN, WITH A MINIMUM OF ONE ANCHOR LOCATED 2" MAX. FROM THE BOTTOM OF THE TRACK AND 12" O.C. MAX. THEREAFTER.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR DETAIL. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
7. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.



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MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DATE	DRWN	CHKD
INIT ISSUE (11-TKO-0001)	04/14/11	KL	FLB
REV. PER BNC COMMENTS	06/23/11	KL	FLB
2010 FBC	12/02/11	KL	FLB
NAME CHANGE	03/19/12	RWN	CSL
FBC UPDATE	08/19/15	RWN	CSL

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